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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| STU\_ID | STU\_NAME | CLASS\_CODE | CLASS\_NAME | CLASS\_CREDHRS | INSTR\_NAME | CLASS\_DAYS | CLASS\_TIMES | ROOM |
| 1587622 | Patrick Warren | CIS 200 | Software Dev II | 3 | Andrew Wright | Tues/Thurs | 5:30pm – 6:45pm | COB 008 |
| 1587622 | Patrick Warren | CIS 310 | Database Design | 3 | Jeff Guan | Mon/Wed | 11:00am – 12:15pm | COB 008 |
| 1587622 | Patrick Warren | CIS 320 | Sys Anal and Design | 3 | Robert Barker | Mon/Wed | 9:30am – 10:45am | COB 008 |
| 1587622 | Patrick Warren | CIS 350 | Infrastructure Tech | 3 | Jozef Zurada | Tues/Thurs | 11:00am – 12:15pm | COB 008 |
| 1910290 | Cailyn Cochran | CIS 310 | Database Design | 3 | Jeff Guan | Mon/Wed | 11:00am – 12:15pm | COB 008 |
| 1910290 | Cailyn Cochran | CIS 320 | Sys Anal and Design | 3 | Robert Barker | Mon/Wed | 9:30am – 10:45pm | COB 008 |
| 1910290 | Cailyn Cochran | CHNS301 | Adv Interim Chinese I | 3 | Ming Wu | Mon/Wed/Fri | 1:00pm – 1:50pm | HUM 220 |
| 1910290 | Cailyn Cochran | CLAW 301 | Legal Env Bus | 3 | Donna Foust | Tues | 5:30pm – 8:15pm | COB 226 |
| 1910290 | Cailyn Cochran | MKT 441 | Marketing Research | 3 | Robert Carter | Mon | 5:30pm – 8:15pm | COB 131 |
| 1910290 | Cailyn Cochran | COMM 565 | Comm Svc Learning – CUE | 3 | Katherine Taylor | Tues/Thurs | 11:00am – 12:15pm | Strickler Hall 307 |
| 1516696 | Brad Riggs | CIS 310 | Database Design | 3 | Jeff Guan | Mon/Wed | 11:00am – 12:15pm | COB 008 |
| 1516696 | Brad Riggs | CIS 320 | Sys Anal and Design | 3 | Robert Barker | Mon/Wed | 9:30am – 10:45am | COB 008 |
| 1516696 | Brad Riggs | CLAW 301 | Legal Env Bus | 3 | Donna Foust | Wed | 5:30pm – 8:15pm | COB 226 |
| 1516696 | Brad Riggs | ENGL 306 | Bus Writing - WR | 3 | Denise Tanner | Online | Online | Online |

C. Major sources of redundancy:

1. STU\_ID, STU\_NAME, CLASS\_CODE, CLASS\_CREDHRS, ROOM
2. Redundancy comes from updates, insertions, and deletions.
   1. Update: If, for instance, we had to update a student’s ID (STU\_ID), we would have to do it in 3-5 separate places based on how many classes the student has. An anomaly incurs when we don’t realize that there is redundant data.
      1. The biggest redundancy now is actually the credit hours. There are 3’s in every entry.
   2. Insert: In this case, if STU\_ID were required by the database and was omitted during the insertion of a new student/class, then the insertion would fail due to absence of data.
   3. Deletion: If Jeff Guan happened to stop teaching Database Design and were deleted from the table, all students associated with him would also be deleted causing a loss of data.